A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C01B3/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

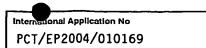
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
Х	WO 00/00426 A (SCHADDENHORST DAVID; SCHOONEBEEK RONALD JAN (NL); SHELL INT RESEAR) 6 January 2000 (2000-01-06) cited in the application	1,4-6
Υ	page 7, line 19 - line 24; claims	2,3
X	WO 99/19249 A (PIETERSE COEN WILLEM JOHANNES ;JONG KRIJN PIETER DE (NL); SCHOONEB) 22 April 1999 (1999-04-22) page 5, line 5 - line 12; claims	1,4-6
Υ	page 3, Time 3 Time 12, Cramis	2,3
Υ	US 4 394 137 A (BRENT ALBERT ET AL) 19 July 1983 (1983-07-19) column 12, line 20 - column 13, line 4; claims	2,3
	-/	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the International search	Date of mailing of the international search report
21 February 2005	07/03/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nt, Fax: (+31-70) 340-3016	Authorized officer Zalm, W

2



	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	LIGIDAGIII IO CIRIIII IVO.
A	US 5 744 067 A (JAHNKE FREDERICK CHARLES) 28 April 1998 (1998-04-28) the whole document	1-6
A	US 6 447 745 B1 (BERLOWITZ PAUL JOSEPH ET AL) 10 September 2002 (2002-09-10) column 12, line 18 - line 22; claims	1-6
Α	US 2003/122266 A1 (BAREIS MARC ET AL) 3 July 2003 (2003-07-03) paragraph '0020!; claims; tables	1
Α	EP 0 892 760 A (SNAM PROGETTI) 27 January 1999 (1999-01-27) cited in the application	
		,

International Application No
PCT/EP2004/010169

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0000426	Α	06-01-2000	AT	222214		15-08-2002
			AT	232836		15-03-2003
			AU	746783		02-05-2002
			AU	4776299		17-01-2000
			AU	743727		31-01-2002
			AU	4777699		17-01-2000
			BR	9911654		20-03-2001
			BR	9911739		03-04-2001
			CA CA	2335970 2335983		06-01-2000
			CN	1307538		06-01-2000 08-08-2001
			CN	1307539		08-08-2001
			CZ	20004900		15-08-2001
			DE	69902547		19-09-2002
			DE	69902547		22-05-2003
			DE	69905467		27-03-2003
			DE	69905467		11-09-2003
			DK	1098840		09-12-2002
			WO	0000425	A1	06-01-2000
	•		WO	0000426		06-01-2000
			EP	1098840		16-05-2001
			EP	1093439		25-04-2001
			ES	2182544		01-03-2003
			ID	28037		03-05-2001
			ID	27777		26-04-2001
			JP	2002519181		02-07-2002
			JP	2002519182		02-07-2002 21-12-2000
			NO NO	20006579 20006580		21-12-2000
			PL	345181		03-12-2001
			PL	345190		03-12-2001
			PT	1098840		29-11-2002
			üs	2004228792		18-11-2004
			ÜS	6702960		09-03-2004
			ZA	200100316		29-08-2001
			ZA	200100317		23-07-2001
WO 9919249	Α	22-04-1999	AT	231102		15-02-2003
			AU	737880		06-09-2001
			AU	1335199		03-05-1999
			BR	9813035		15-08-2000
			CA	2306938		22-04-1999
			CN DE	1275961 69810805		06-12-2000 20-02 - 2003
			DE	69810805		11-12-2003
			WO	9919249		22-04-1999
			EP	1025039		09-08-2000
			ĪD	24366		13-07-2000
			ĴΡ	2001519311		23-10-2001
			NO.	20001927		13-04-2000
			PL	339812		02-01-2001
			TW	440541		16-06-2001
			US	6673270		06-01-2004
			ZA	9809263		16-04-1999
		19-07-1983	US	4371378	Α	01-02-1983
US 4394137	Α	19-0/-1903				
US 4394137	A	19-07-1983	AU AU	549751 8469682	B2	13-02-1986 16-12-1982

Internal Application No
PCT/EP2004/010169

			, = .			
Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
US 4394137	Α		CA DE FR	1172044 A1 3220546 A1 2507615 A1	07-08-1984 27-01-1983 17-12-1982	
			GB	2099843 A ,B	15-12-1982	
			IT	1151794 B	24-12-1986	
			NL NZ	8202327 A 200759 A	03-01-1983 09-11-1984	
			US	4490156 A	25-12-1984	
			CA	1162046 A1	14-02-1984	
			DE	3047734 A1	08-10-1981	
			US	4400180 A	23-08-1983	
			US	4371379 A	01-02-1983	
US 5744067	Α	28-04-1998	US	5358696 A	25-10-1994	
			AU AU	680070 B2 1040695 A	17-07-1997 19-06-1995	
			BR	9408247 A	27-05-1997	
			CA	2177176 A1	08-06-1995	
			CN	1136800 A	27-11-1996	
			EP	0731773 A1	18-09-1996	
			FI	962218 A	11-07-1996	
			HU JP	75978 A2 9502694 T	28-05-1997 18-03-1997	
			NO	962260 A	04-07-1996	
			NZ	276225 A	25-09-1996	
			PL	314726 A1	16-09-1996	
			SK	70496 A3	09-04-1997	
			WO	9515290 A1	08-06-1995	
US 6447745	B1	10-09-2002	AU	8299601 A	04-03-2002	
			CA	2415833 A1	28-02-2002	
			EP JP	1322549 A2 2004506583 T	02-07-2003 04-03-2004	
			WO	0216259 A2	28-02-2002	
US 2003122266	A1	03-07-2003	DE WO	10002004 A1 0154219 A1	09-08-2001 26-07-2001	
			DE	50101908 D1	13-05-2004	
			EP	1252679 A1	30-10-2002	
EP 0892760		27-01-1999	IT	MI960690 A1	13-10-1997	
00,2,00	••	2. 01 1555	ĀÜ	2384597 A	29-10-1997	
			DE	69702190 D1	06-07-2000	
			DE	69702190 T2	14-12-2000	
			DK	892760 T3	21-08-2000 27-01-1999	
			EP NO	0892760 A1 984735 A	08-12-1998	
			WO	9737929 A1	16-10-1997	
			RŬ	2175636 C2	10-11-2001	